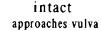




APPLICANT(S) Stemberg and Bart
TITLE POLYCYSTIC KIDNEY DISEASE GENE HOMO
REQUIRED FOR MALE MATING BEHAVIOR I
NEMATODES AND ASSAYS BASED THEREON
Application No 09/655,160 Filing Date September 5, 2000
Docket No CIT1520-2





stops at vulva



inserts spicules and transfers sperm



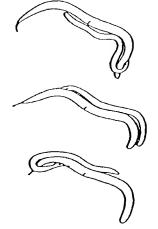
hook ablated approaches vulva

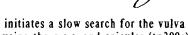


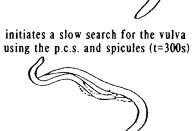
passes vulva



circles hermaphrodite







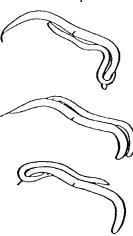
1ov-1(sy552)approaches vulva



passes vulva



circles hermaphrodite



stops at vulva



inserts spicules and transfers sperm



FIG. 1



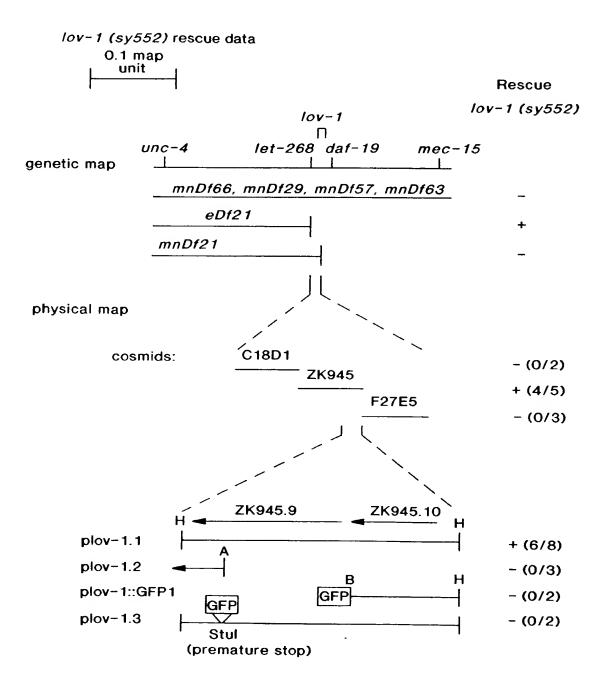
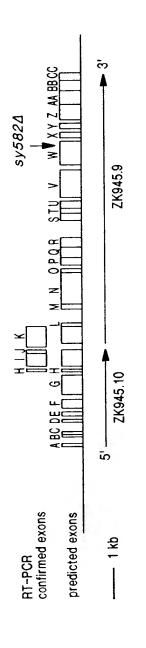


FIG. 2A

3/7



lov-1 gene structure: 16.7 kb rescuing clone



Schematic of GFP fusion constructs and expression data

FIG. 2B

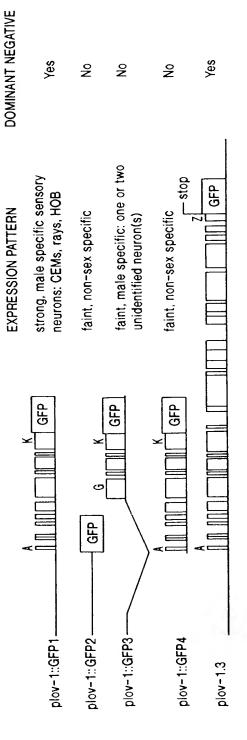


FIG. 2C



LOV-1 structural features and sequence homologies

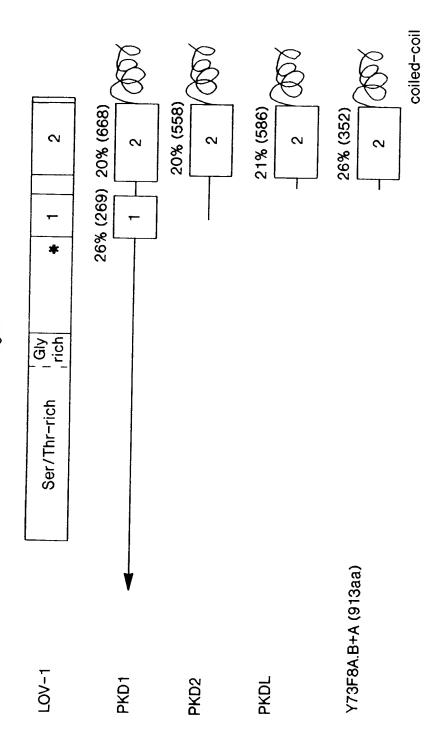


FIG. 2D



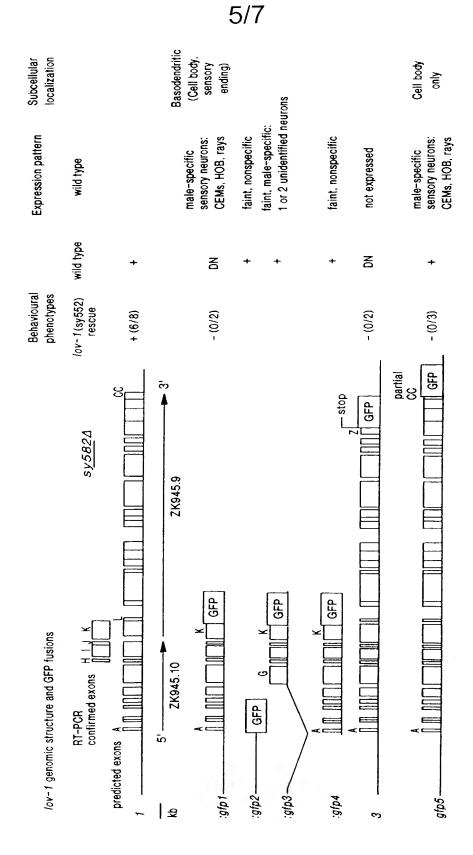


FIG. 3A

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Docket No CIT1520-2

6/7 Subcellular localization axon, dendrite) CEMs, HOB, rays sensory ending) Basodendritic (cell body. (Cell body, Uniform CEMs, HOB, rays sensory neurons: sensory neurons: nonspecific, ring neurons (weak) Expression male-specific male-specific wild type pattern wild type lov-1 (sy552) rescue phenotypes Behavioural Y73F8A.a GFP Y73F8A.b kd-2 genomic structure and GFP fusions GFP 3quenced cDNA yk219e1 edicted exons -2::gfp1-<del>2</del> -2::gfp2 -

FIG. 3B





APPLICANT(S) Sternberg and Barr
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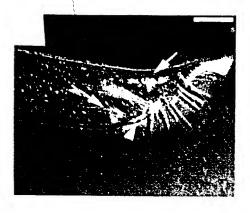


FIG. 4A

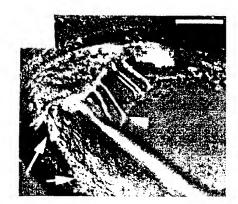


FIG. 4D



FIG. 4B



FIG. 4E



FIG. 4C

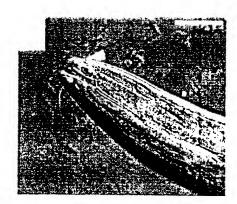


FIG. 4F